

P.O. BOX 1000 / RT 9W / PALISADES, NY 10964-8000 USA / 914-359-2900

March 16, 1995

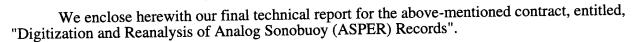
Mr. Martin J. Morris, Adminis. Contracting Officer Office of Naval Research Boston Regional Office 495 Summer St., Room 103 Boston, MA 02210-2109

Re: Final Technical Report

Contract: NOOO14-93-C-0244

R & T 4253211---01/29 JUL 1993/324

Dear Mr. Morris:



At your request, we are sending this cover letter and a copy of the final report to those mentioned on the Distribution Requirements List, and mentioned below.

If you have any questions, please do not hesitate to contact my office at 914-365-8524, or e-mail me at johnd@ldeo.columbia.edu.

Thank you.

Approved for pelmined

Very truly yours,

John B. Diebold Research Scientist

Principal Investigator

cc: Scientific Officer Code NOOO14 (Dr. R. Jacobson)
Director, Naval Research Laboratory, Attn: Code 2627
Defense Technical Information Center Code S47031
P. Stambaugh, Sr. Contracts Officer, Lamont-Doherty

19951027 060

Final Technical Report Contract: NOOO14-93-C-0244 R & T 4253211---01/29 JUL 1993/324

Project Title: "Digitization and Reanalysis of Analog Sonobuoy (ASPER) RECORDS

Principal Investigator: Dr. John B. Diebold

This project involved a multifaceted approach for making the database of analog sonobuoy records and solutions at Lamont more accessible to NAVO (Stennis) personnel.

Each item on a list of seven deliverables was transmitted to NAVO, either in person or by electronic mail:

- 1. New raytraced solutions of thirty-eight shallow-water sonobuoys recorded aboard Lamont ships in the East China Sea were obtained by iterative forward modeling and delivered as an ASCII file.
- 2. New software written to access the database of existing solutions was delivered and demonstrated. This software allows location of solutions by search within a specified geographical area, and extraction of the solutions for all previously analyzed Lamont sonobuoys.
- 3. The existing database of some 4169 sonobuoy solutions was checked, and several kinds of errors were detected and eliminated. These included wrong water depths, mislabeled buoys, and inconsistent or inadequate formats. The resulting database file, in ASCII form and suitable for use with the software described in 2., was delivered.
- 4. This item, "Software and Documentation to access current data base of solutions" is covered under item 2.
- 5, 6, 7. "JDseis", a large software package for various kinds of interactive analysis of all types of seismic data, was modified to include the scaling of scanned images of analog data. This software, along with its accompanying documentation was delivered to Stennis, along with a large format (12" x 17") black-and-white Fujitsu Scanner. In December, 1993, the principal investigator traveled to Stennis, and for several days, demonstrated the use of the scanner, as well as this and the aforementioned software.

Accession For	38
MTIS GRA&I	प्र
DTIC TAB	
Unannousced	
Justification_	
By perletteres	closed
Distribution	
Availability C	odaa
Avail and/	OF
Mat Special	
	, in the second
	S. Carlo

Jacobson, R., J.Diebold, and R. Carlson, 1993. Digitization and Reanalysis of Airgun-Sonobuoy Records; EOS Transactions, Vol. 74, No. 43, p. 451.



IN REPLY REFER TO



OFFICE OF THE UNDER SECRETARY OF DEFENSE (ACQUISITION) DEFENSE TECHNICAL INFORMATION CENTER CAMERON STATION ALEXANDRIA, VIRGINIA 22304-6145

DTIC-OCC

SUBJECT: Distribution Statements on Technical Documents

OFFICE OF NAVAL RESEARCH CORPORATE PROGRAMS DIVISION

ONR 353

TO:

800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660

1. Reference: DoD Directive 5230.24, Distribution Statements on Technical Documents, 18 Mar 87.

2. The Defense Technical Information Center received the enclosed report (referenced below) which is not marked in accordance with the above reference.

FINAL REPORT N00014-93-C-0244 TITLE: DIGITIZATION AND REANALYSIS OF ANALOG SONOBUOY

- 3. We request the appropriate distribution statement be assigned and the report returned to DTIC within 5 working days.
- 4. Approved distribution statements are listed on the reverse of this letter. If you have any questions regarding these statements, call DTIC's Cataloging Branch, (703) 274-6837.

FOR THE ADMINISTRATOR:

1 Encl

GOPALAKRISHNAN NAIR Chief, Cataloging Branch

FL-171 **Jul 93**

DISTRIBUTION STATEMENT A:

APPROVED FOR PUBLIC RELEASE: DISTRIBUTION IS UNLIMITED

DISTRIBUTION STATEMENT B:

DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES ONLY; (Indicate Reason and Date Below). OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO (Indicate Controlling DoD Office Below).

DISTRIBUTION STATEMENT C:

DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND THEIR CONTRACTORS; (Indicate Reason and Date Below). OTHER REQUESTS FOR THIS DOCUMENT SHALL BE REFERRED TO (Indicate Controlling DoD Office Below).

DISTRIBUTION STATEMENT D:

DISTRIBUTION AUTHORIZED TO DOD AND U.S. DOD CONTRACTORS ONLY; (Indicate Reason and Date Below). OTHER REQUESTS SHALL BE REFERRED TO (Indicate Controlling DoD Office Below).

DISTRIBUTION STATEMENT E:

DISTRIBUTION AUTHORIZED TO DOD COMPONENTS ONLY; (Indicate Reason and Date Below). OTHER REQUESTS SHALL BE REFERRED TO (Indicate Controlling DoD Office Below).

DISTRIBUTION STATEMENT F:

FURTHER DISSEMINATION ONLY AS DIRECTED BY (Indicate Controlling DoD Office and Date Below) or HIGHER DOD AUTHORITY.

DISTRIBUTION STATEMENT X:

DISTRIBUTION AUTHORIZED TO U.S. GOVERNMENT AGENCIES AND PRIVATE INDIVIDUALS OR ENTERPRISES ELIGIBLE TO OBTAIN EXPORT-CONTROLLED TECHNICAL DATA IN ACCORDANCE WITH DOD DIRECTIVE 5230.25, WITHHOLDING OF UNCLASSIFIED TECHNICAL DATA FROM PUBLIC DISCLOSURE, 6 Nov 1984 (Indicate date of determination). CONTROLLING DOD OFFICE IS (Indicate Controlling DoD Office).

The cited documents has been reviewed by competent authority and the following distribution statement is hereby authorized.

OFFICE OF NAVAL RESEARCH CORPORATE PROGRAMS DIVISION (Statement) (Controlling DoD Office Name) ONR 353 800 NORTH QUINCY STREET ARLINGTON, VA 22217-5660 (Reason) (Controlling DoD Office Address. DEBRA T. HUGHES' City, State, Zip) DEPUTY DIRECTOR CORMINATE PROGRAMS OFFICE [19 SEP 1995

(Signature & Typed Name)

(Assigning Office)

(Date Statement Assigned)